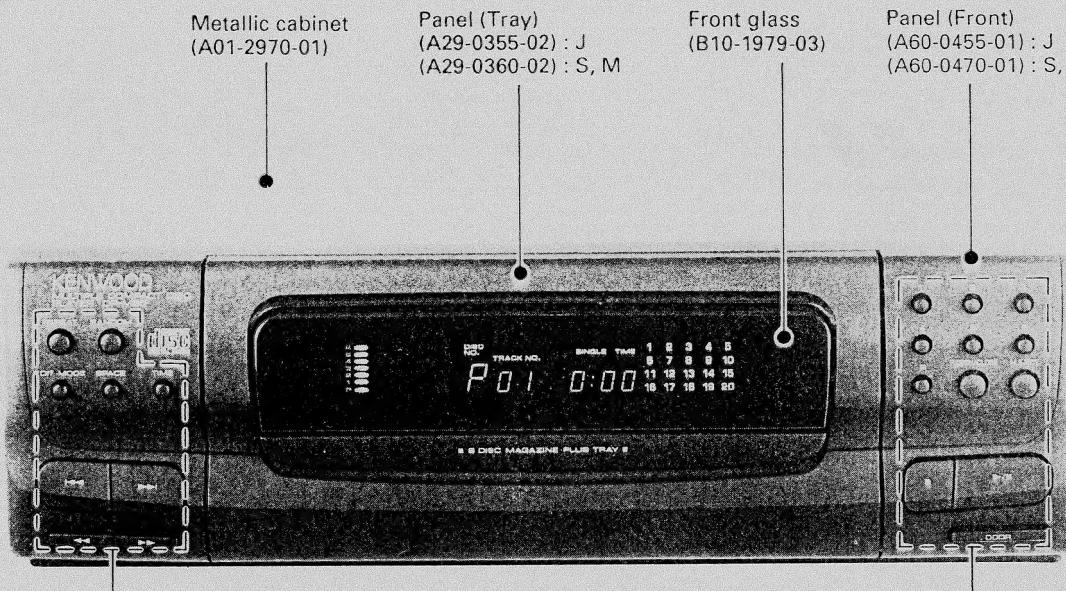


DP-MB5/MB9

SERVICE MANUAL

KENWOOD

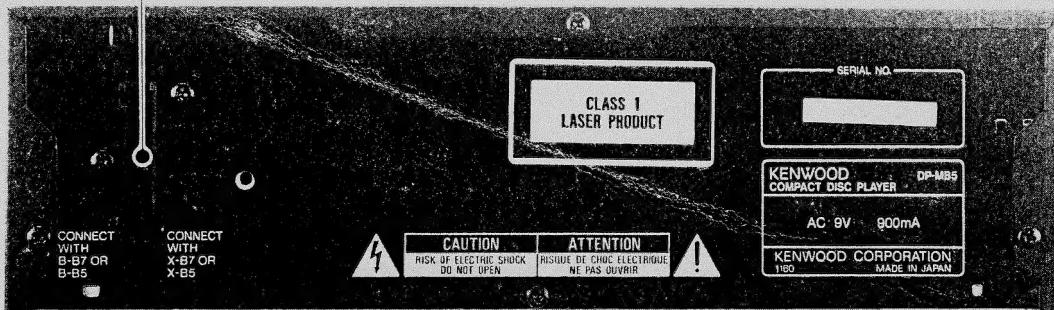
© 1993-6 PRINTED IN JAPAN
B51-4781-00(O) 4447



Rectangular receptacle
(E58-0006-05)

Knob (Play/Pause, Stop etc.)
(K29-5777-12)

J=JAPAN made
S=SINGAPORE made
M=MALAYSIA made



*Photo is DP-MB5.

Refer to DP-MA5/MA9 service manual (B51-4588-00), if need description in detail.

CAUTION : When doing repair of DP-MB5, MB9 be sure to have the customer bring the B-B5, B-B7, B-B9 or use power supply jig <RM-90PS + UA-93AD (adaptor) >, or supply to 9V AC to terminal Nos 14 and 15 of J1 on the X32-2550 (X32-2590) PC board ass'y. If not get 9V AC, please order the A-848's power transformer (parts No. L07-0038-05 / 120V / 220V / 240V). Refer to the DP-911 service manual. Don't use the "RHEO-STAT".

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040.10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

DP-MB5/MB9

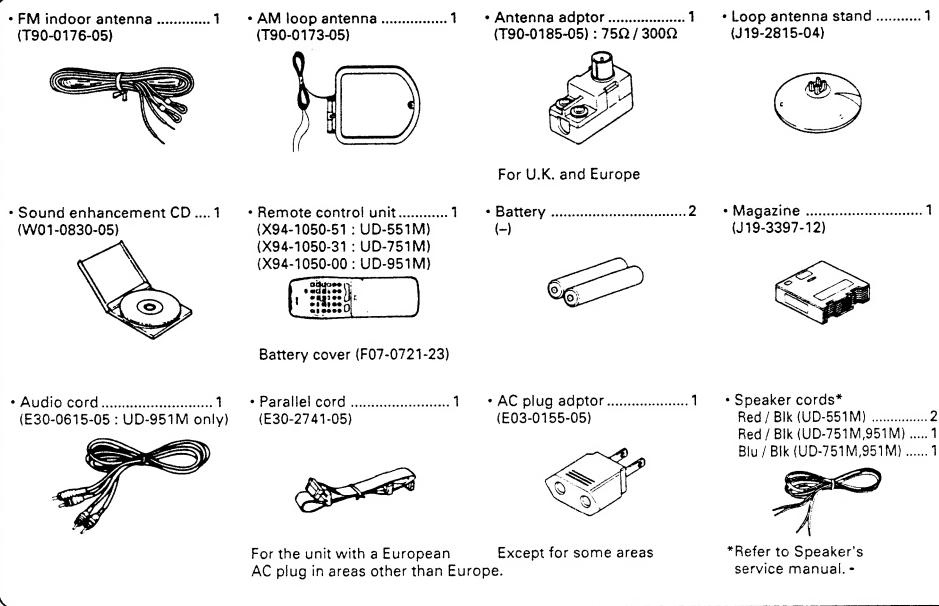
CONTENTS/ACCESSORIES

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SPECIFICATIONS	BACK COVER

NOTE : Refer to DP-MA5/MA9 service manual (B51-4588-00), if need description in detail.

ACCESSORIES

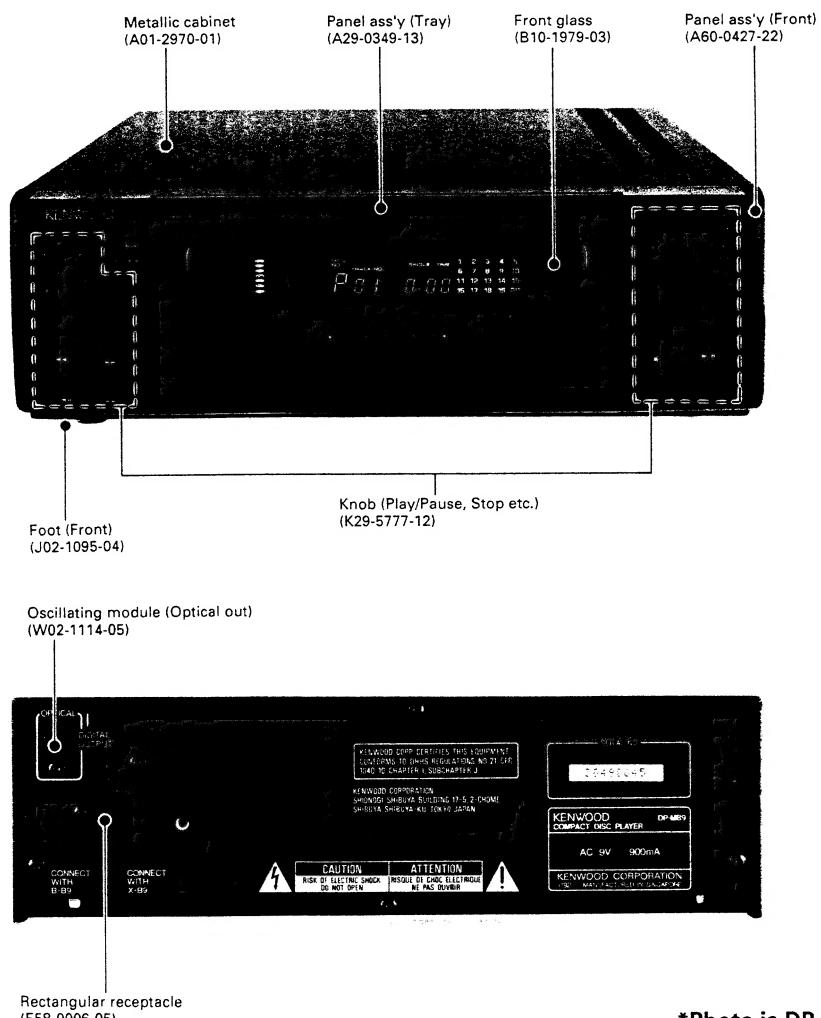


Speaker cords are packed with the Speakers, magazine are packed with the CD player.
All other accessories are packed with the Pre-amp/Tuner unit.

System name	Pre-amp/Tuner	Power-amp	CD player	Cassette deck	Speaker
UD-551M	C-B5/B5L	B-B5	DP-MB5	X-B5	LS-B5
UD-751M	C-B7/B7L	B-B7	DP-MB5	X-B7	LS-B7
UD-951M	C-B9/B9L	B-B9	DP-MB9	X-B9	LS-B9

DP-MB5/MB9

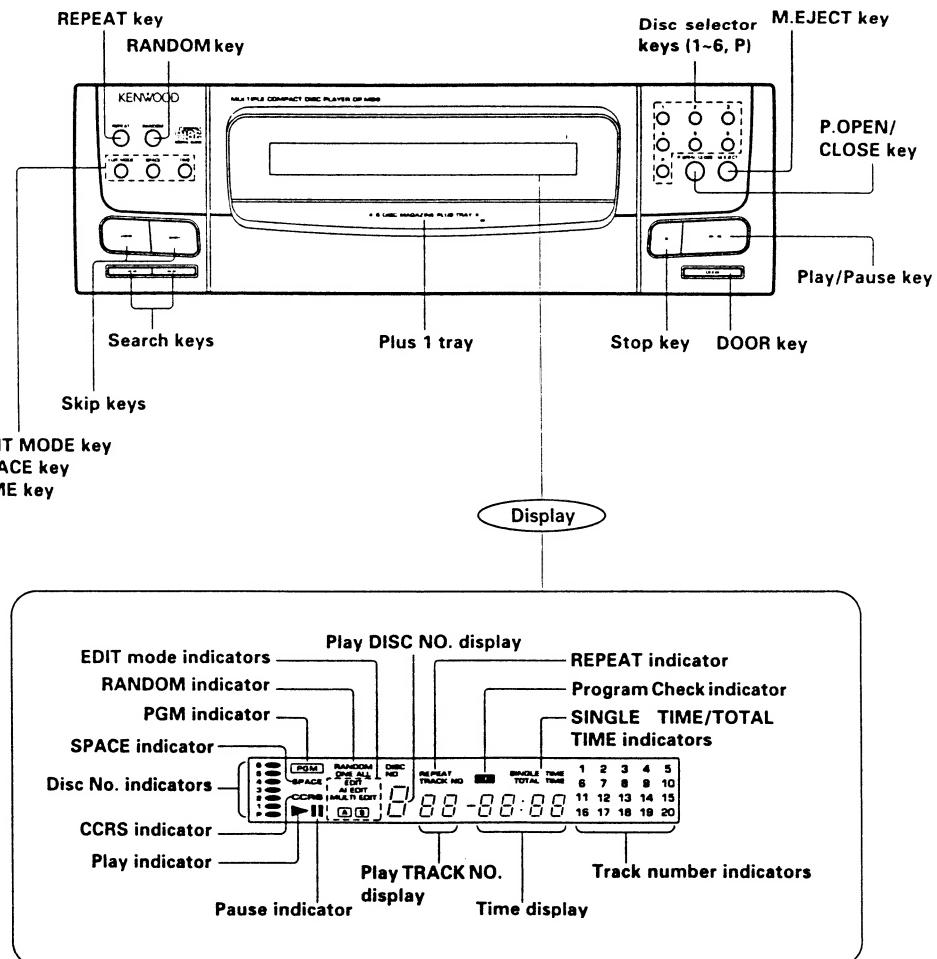
EXTERNAL VIEW : DP-MB9



*Photo is DP-MB9.

DP-MB5/MB9

CONTROL



• Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

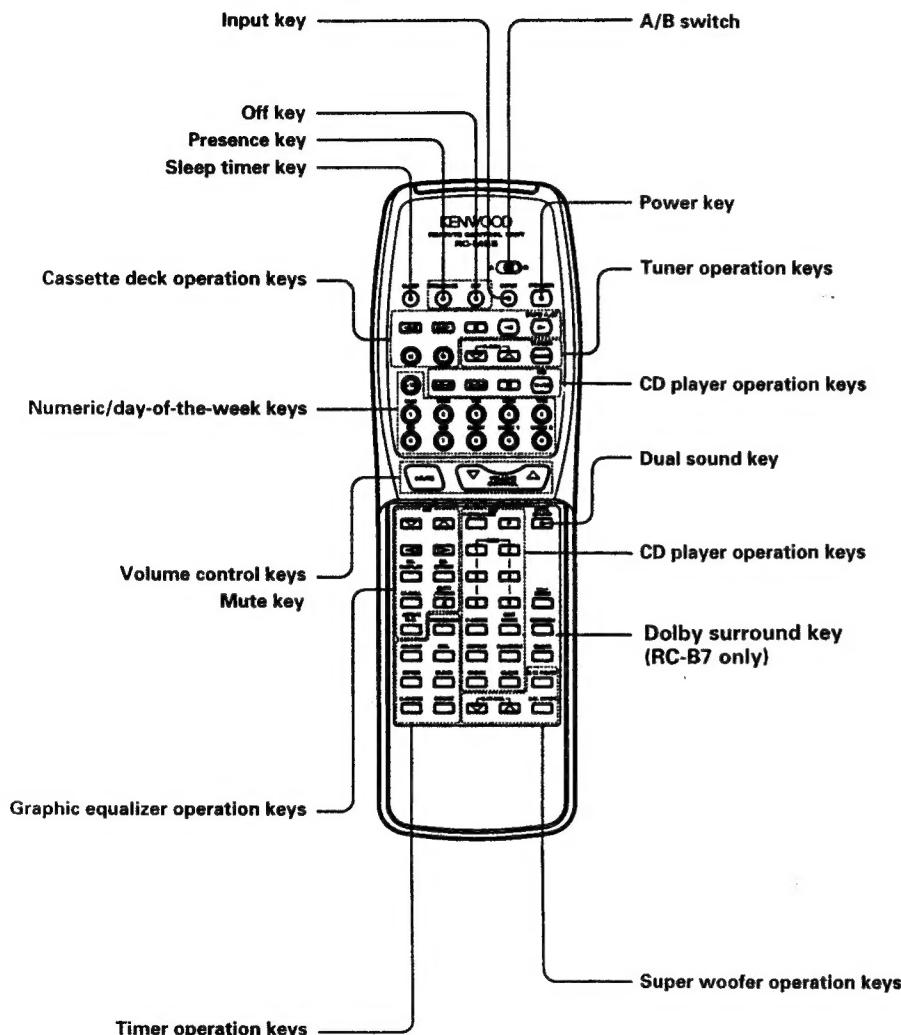
Without magazine, press the **▶ II** key.

DISC	SPACE	DISC NO.	REPEAT	DISC	TRACK NO.	TIME	1	2	3	4	5
DISC	SPACE	DISC ALL	DISC	REPEAT	TRACK NO.	TIME	6	7	8	9	10
DISC	SPACE	DISC ALL	DISC	REPEAT	TRACK NO.	TIME	11	12	13	14	15
DISC	SPACE	DISC ALL	DISC	REPEAT	TRACK NO.	TIME	16	17	18	19	20

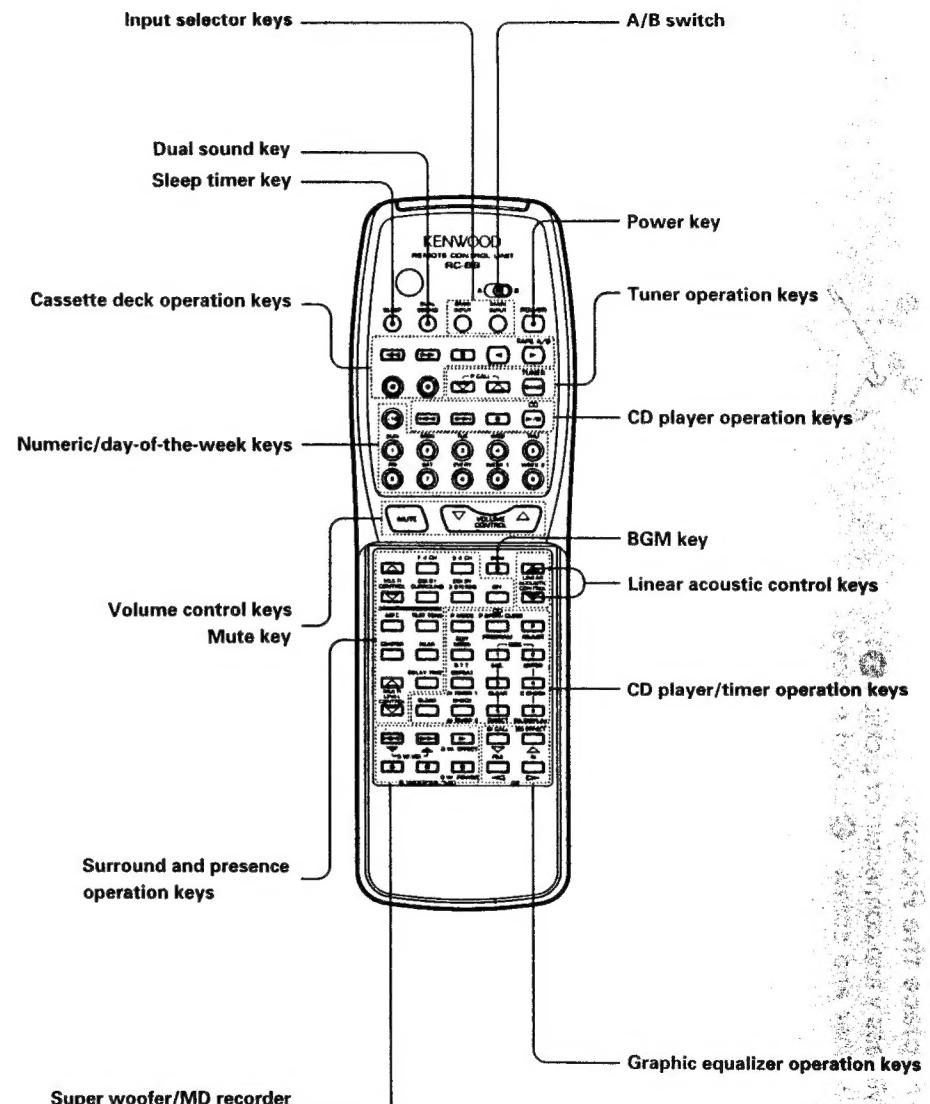
REMOTE CONTROL OPERATING

DP-MB5/MB9

■ UD-551M, UD-751M (DP-MB5)



■ UD-951M (DP-MB9)



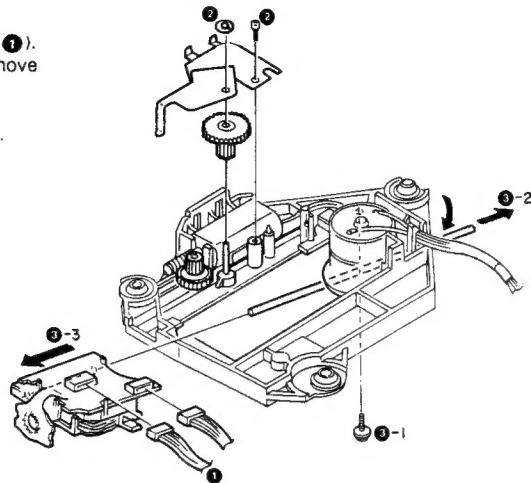
Model name : RC-MB5 (X94-1050-51) : UD-551M
 Model name : RC-B7 (X94-1050-31) : UD-751M
 Infrared color system

Model name : RC-B9 (X94-1050-00)
 Infrared color system

DISASSEMBLY FOR REPAIR

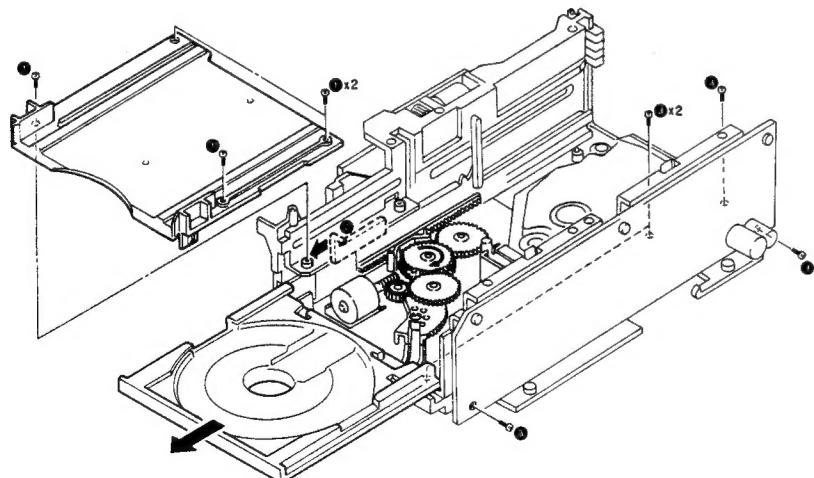
2. How to Replace the Pickup

1. Remove MD ass'y and connector for pickup (①).
2. Remove washer and screw (②). And remove feed gear.
3. Remove screw for pickup rod (③-1).
4. Pull out rod (③-2) and remove pickup (③-3).



3. How to Remove Plus 1 Tray ass'y

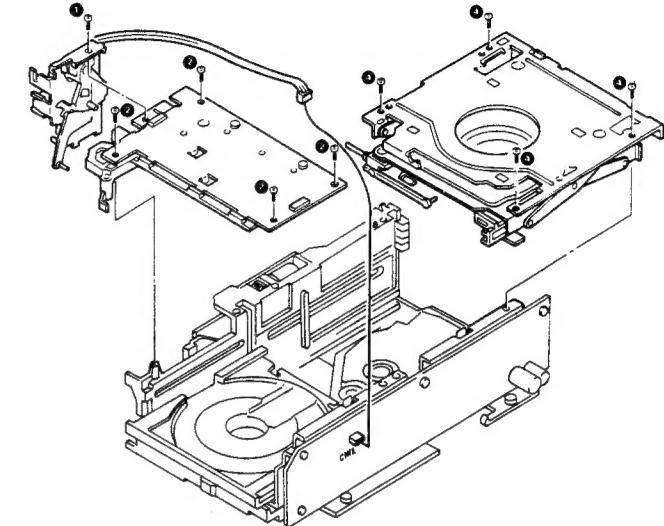
1. Unscrew screws (①) and remove magazine pack holder.
2. Move lock lever (②) frontwards and pull out plus 1 tray frontwards. If not come out tray, turn gear clockwise.
3. Remove screws (③).



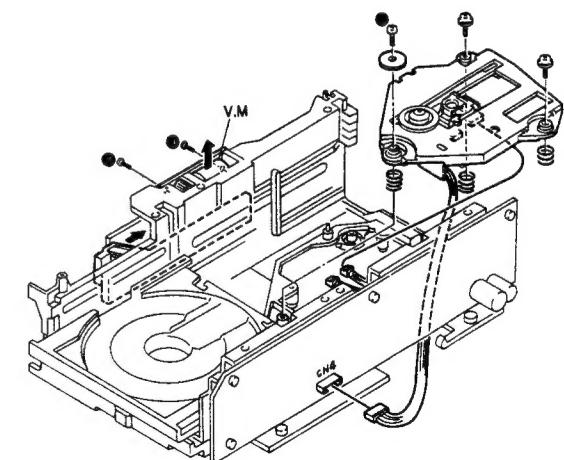
1. How to Disassemble MD (Mechanism)

Deck ass'y

- * Take out Magazine pack.
- 1. Remove solenoid ass'y (①).
- 2. Remove magazine lock ass'y (②).

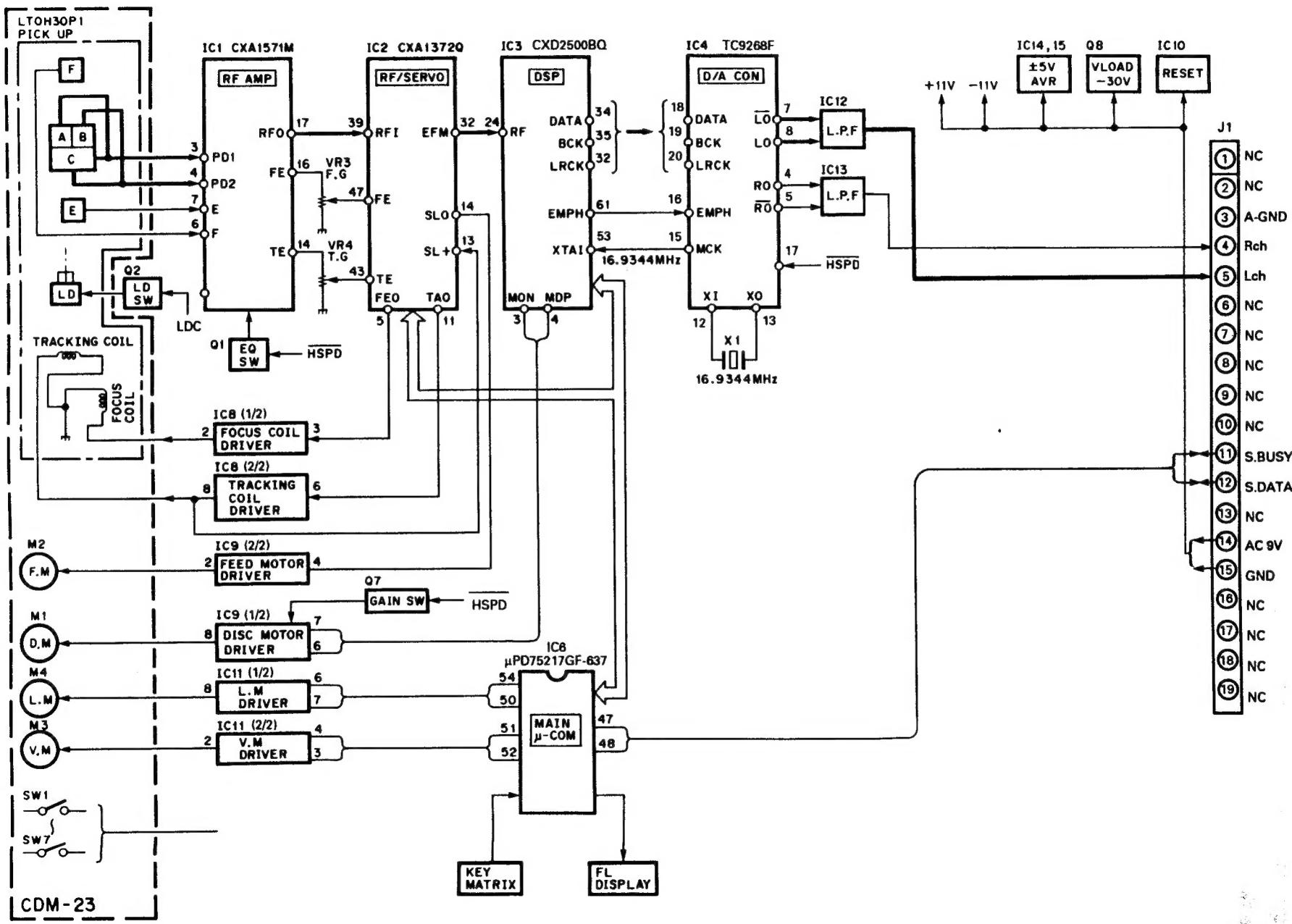


3. Remove screws of vertical motor (③).
4. Lift up motor and move slider fully backwards.
5. Remount vertical motor with screws.
6. Remove lifter ass'y (④).
7. Remove screws of MD ass'y (⑤).



D P-MB5/MB9

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Test Mode

Setting the test mode

This microprocessor built in this unit (X32-) can be put to TEST MODE by just short-circuiting the test pins (#2 and #3).

No.	Input key	Function	Display
1	STOP	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF	
2	REPEAT	(1) Laser (in STOP mode only) ON	
3	RANDOM	(1) Focusing servo ON (2) Tracking servo OFF (3) Feed servo OFF	
4	TIME	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo OFF	
5	PLAY	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo ON	
6	DISC 1	Load No.1 disc to No.6 in order.	
7	DISC 2	Read the TOC (table of contents) of disc No.3 to No.6 in order. TEST mode is cancelled after reading the TOC of No.6 disc, and then playback the 1st track.	

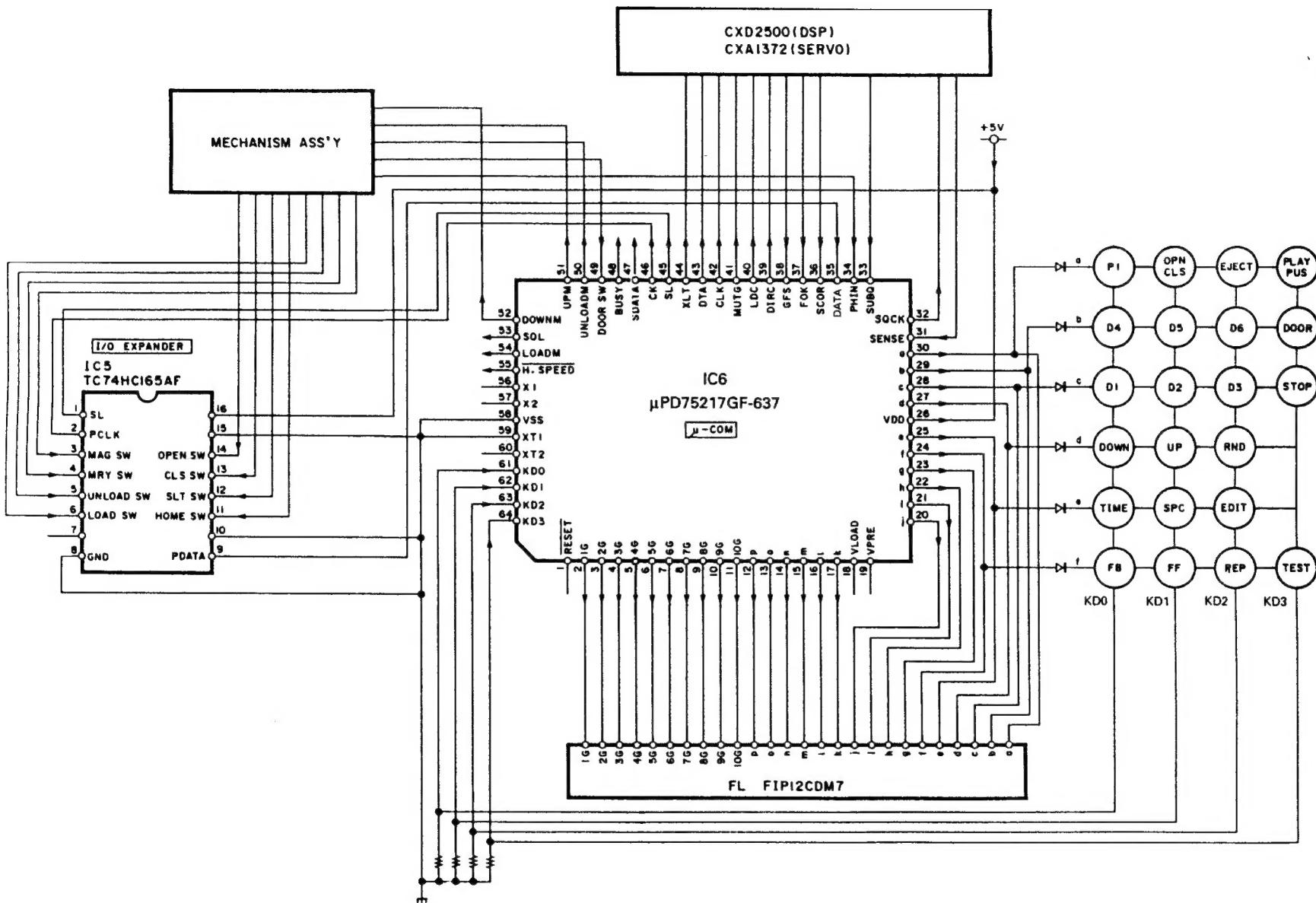
CIRCUIT DESCRIPTION

No.	Input key	Function	Display
8	DISC 3 ~ 6 DISC P	Load the decided No. disc which is pressed by the key and set to STOP mode. ex. Disc No.4 key is pressed (PLAY, CHECK and CLEAR keys are available to operate).	
9	UP	Turns all FL display lamps ON.	
10	DOWN	Turns all FL display lamps OFF. 'DISC' and '1 ~ 6' are not off because circuit is static operation.	
11	EDIT	(1) Door opens. (2) P1 tray come out. Press 'EDIT' key, 'PLAY MODE'.	
12	FF	In the STOP mode, moves the pickup slightly toward the outer position of disc.	
13	FB	In the STOP mode, moves the pickup slightly toward the inner position of disc.	
14	SPACE	High-speed playback CHECK mode (in stop mode only) playback P1 disc in high-speed mode. If press 'SPACE' key, change to normal mode. In this mode, all keys are available.	

DP-MB5/MB9

CIRCUIT DESCRIPTION

2. Microprocessor : μ PD75217GF-637 (IC6)
 2.1. Pin connection diagram



CIRCUIT DESCRIPTION

2-2. Pin functions : μPD75217GF-637 (IC6)

Pin No.	Pin name	I/O	Function
1	RESET	-	Reset input port
2 ~ 11	1G ~ 10G	O	FL grid control port
12 ~ 17	p ~ k	O	Not used
18	VLOAD	I	FL driver negative power supply
19	VPRE	I	FL pre-driver power supply
20 ~ 25	j ~ e	O	FL grid control port also used for key-scan
26	Vdd	-	+5V power supply
27 ~ 30	d ~ a	O	FL grid control port also used for key-scan
31	SENSE	I	Signal detection port for SENSE signal from signal processor and servo IC
32	SOCK	O	Q-data read clock output port
33	SUBQ	O	Q-data input port
34	PHIN	I	Photo interrupter input port for mechanism (PH1)
35	DATA	I	Data input from TC74HC165AF
36	SCOR	I	Sub-code frame sync detection signal input port
37	FOK	I	Input port of FOK signal from RF amp
38	GFS	I	Input port of frame sync signal
39	DIRC	O	DIRC control port of servo IC
40	LDC	O	Laser ON/OFF signal output
41	MUTG	O	Mute port of signal processor
42	CLK	O	Signal processor and servo IC control out port (CLOCK)
43	DATA	O	Signal processor and servo IC control out port (DATA)
44	XLT	I	Signal processor and servo IC control out port (LATCH)
45	S/L	I	Latch output port of TC74HC165AF
46	CK	O	Clock output port of TC74HC165AF
47	SDATA	I/O	Serial DATA in/out port
48	BUSY	I/O	Serial BUSY in/out port
49	DOORSW	O	Door switch input port of mechanism
50	UNLOADM	O	Control port of unloading motor for mechanism
51	UPM	O	Control port of up motor for mechanism
52	DOWNM	O	Control port of down motor for mechanism
53	SOL	O	Control port of solenoid for mechanism
54	LOADM	O	Control port of loading motor for mechanism (LM)
55	H.SPEED	O	High-speed control port (Active L)
56	X1	I	Oscillation input port (4.19MHz)
57	X2	-	NC
58	Vss	-	GND
59	XT1	-	GND
60	XT2	-	NC (Open)
61 ~ 64	KD0 ~ 3	I	Key input port

2-3. Pin functions : TC74HC165AP (IC9)

Pin No.	Pin name	I/O	Function
1	SL	I	Shift load input
2	PCLK	I	Clock input
3	MAGSW	I	Magazine switch (SW3)
4	MRYSW	I	Memory switch (SW3)
5	UNLOADSW	I	Unload switch (SW5)
6	LOADSW	I	Load switch (SW5)
7	-	O	No use
8	GND	-	Ground
9	PDATA	O	Data output
10	-	I	No use
11	HOMESW	I	Home position switch (SW2)
12	SLTSW	I	Start limit switch (SW1)
13	CLSSW	I	Tray close switch (SW6)
14	OPNSW	I	Tray open switch (SW6)
15	-	I	No use
16	Vcc	-	Power supply (+5V)

2-4. TOC data output of serial codes for AI file

When the CD player reads the TOC data of a disc (in the play mode), the following serial codes (16 bits) are output.

• CD MAX TRACK No. [61XX]

Model code 61H
Function code XXH (Max TNO)

• CD TOTAL TIME (min.) [62XX]

Model code 62H
Function code XXH (Total time in min.)

• CD TOTAL TIME (sec.) [62XX]

Model code 63H
Function code XXH (Total time in sec.)

Example

When a disc containing 20 tunes of 65 minutes and 2 seconds in total is played, the following three codes [6120], [6265] and [6302] are output continuously.

DP-MB5/MB9

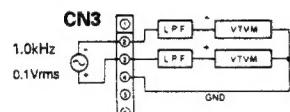
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3-1) CH2: TE (CN3-6)	Press the P. OPEX/CLOSE key to open the tray. Reset to TEST mode. Then, press the CHECK key. Confirm that the display is "03".	TE BALANCE VR2	Symmetry between upper and lower patterns, or DC=0±0.05V	(a)
2	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3-1) CH2: TE (CN3-6)	Press the PLAY key. Confirm that the display is "05".	FE BALANCE VR1	Optimum eyepattern Grating is correctly aligned with the RF level of 1.5Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(b)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1kHz, 0.1Vrms to CN3 pin 2 and 3.	Connect a LPF to CN3 pin 2-3, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR3	Two VTVMs should read (c) the same value.	
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.3kHz, 0.1Vrms to CN3 pin 5 and 6.	Connect a LPF to CN3 pin 5-6, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR4	Two VTVMs should read the same value.	(c)

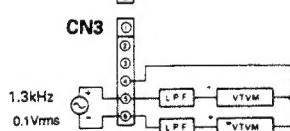
(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent. LPF: around 47kohms-390pF or so. Adjustment procedures are in TEST MODE.

(c)Focus Gain and Tracking Gain Adj.

Focus gain adj.



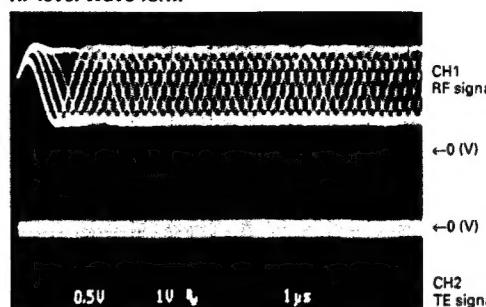
Tracking gain adj.



DP-MB5/MB9

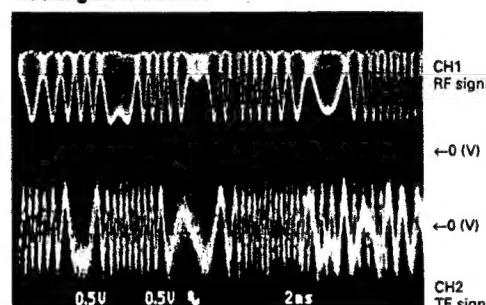
ADJUSTMENT

RF level Wave-form



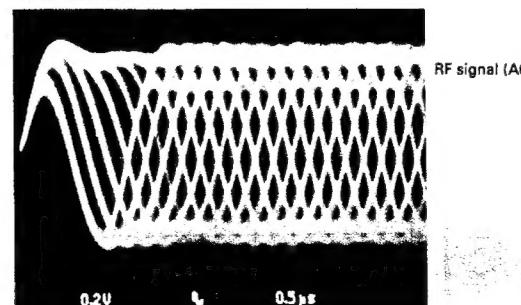
- RF signal and E.Spot signal in test mode (PLAY).

Tracking error balance



- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below OV (VR2).

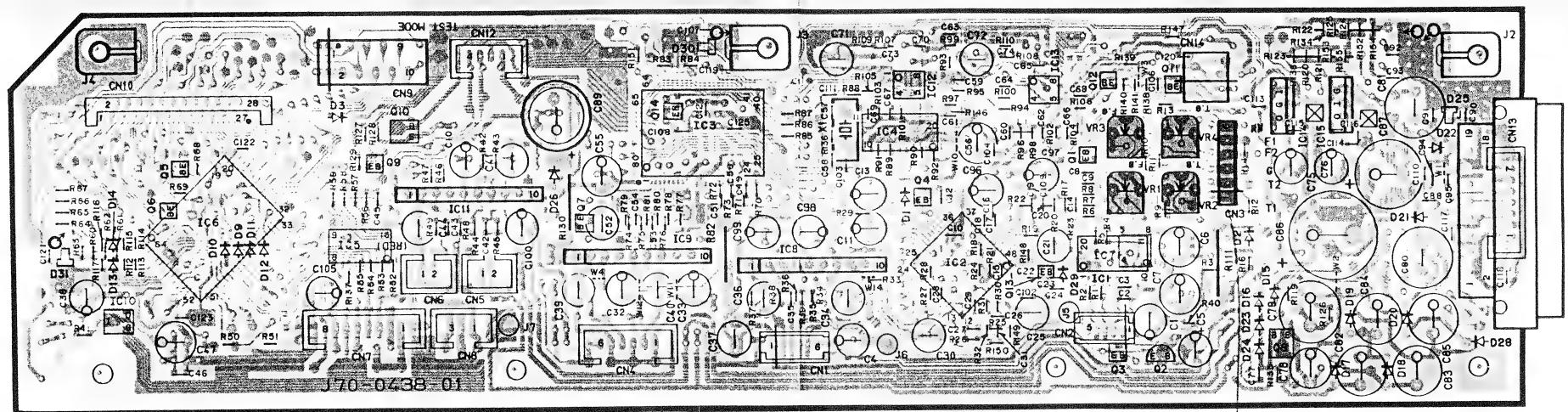
Focus error balance



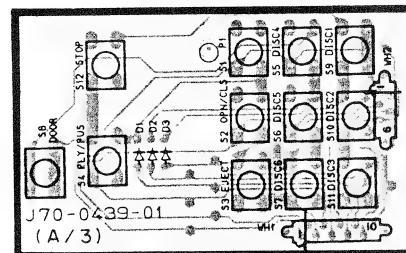
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.

A B C D E F G H I J

1 PC BOARD (COMPONENT SIDE VIEW)

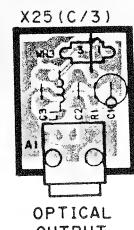
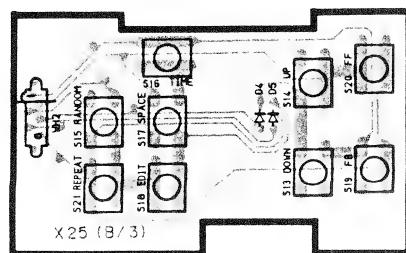


X32-2550-XX (-00:MB5, -01:MB9) JAPAN MADE / X32-2590-XX (-00:MB5, -01:MB9) SINGAPORE, MALAYSIA MADE

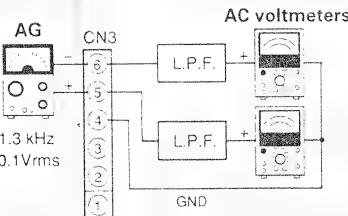


X25-5360-XX (-00:MB5, -01:MB9) JAPAN MADE

X25-5430-XX (-00:MB5, -01:MB9) SINGAPORE, MALAYSIA MADE

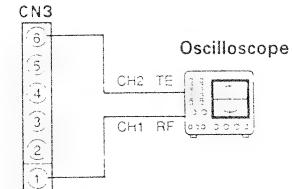


(c) Tracking gain : Two VTVMs should read the same value.

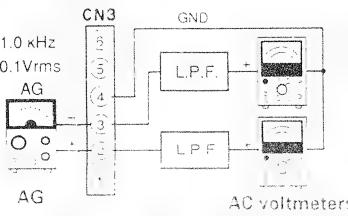


(a) Tracking error balance : Symmetry between upper and lower patterns or $DC=0\pm0.05V$.

(b) Focus error balance : Optimum eye pattern.

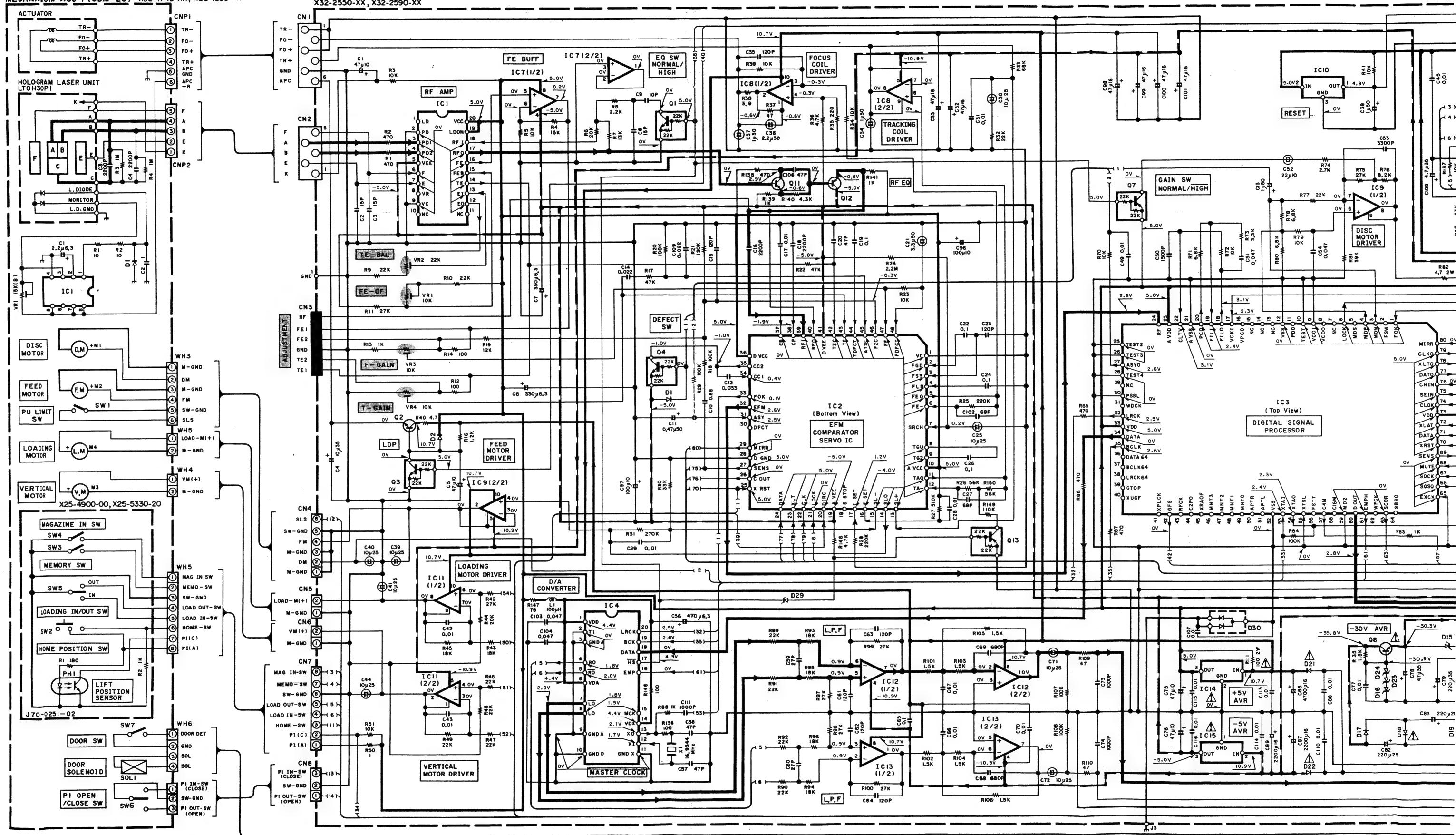


(c) Focus gain : Two VTVMs should read the same value.

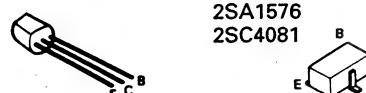


Refer to the schematic diagram for the values of resistors and capacitors.

MECHANISM ASS'Y (CDM-23) X92-1749-XX, X92-1839-XX



2SC3246



DTA124EU
DTC124EU
2SA1576
2SC4081

2SB1308



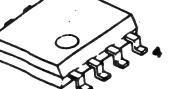
2SD1963



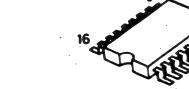
LA6510
TA8410AK



NJM4565M



TC74HC165AF



LM2940CT-5.0



CXA1571M



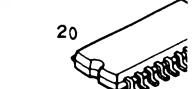
CXD2500BQ

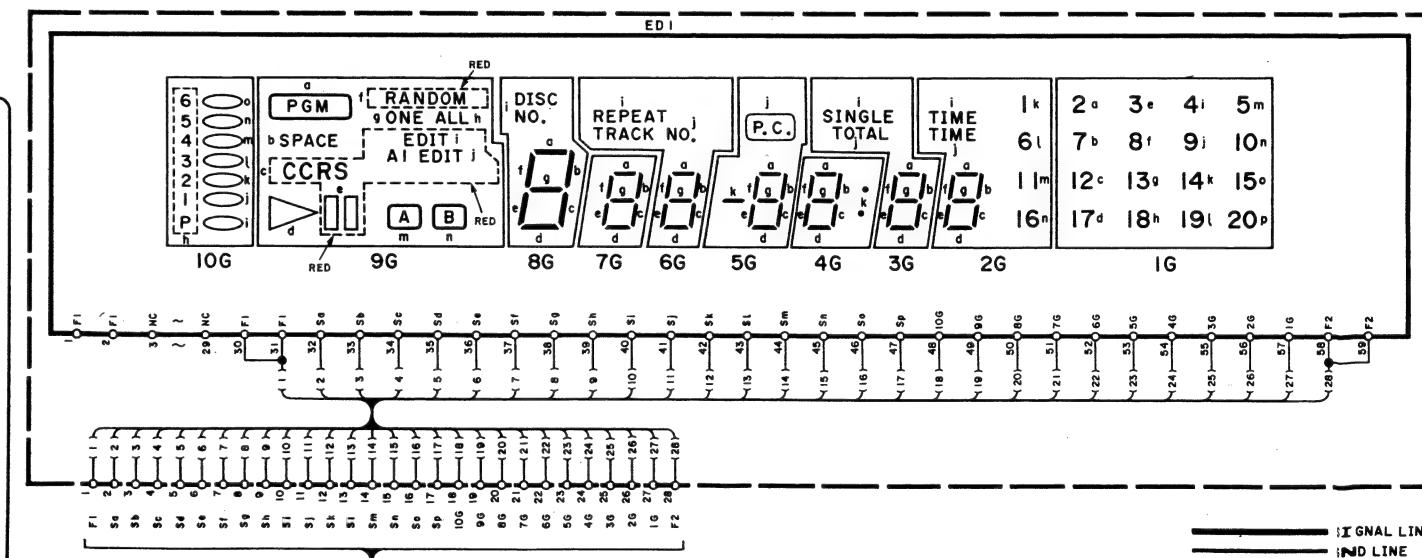
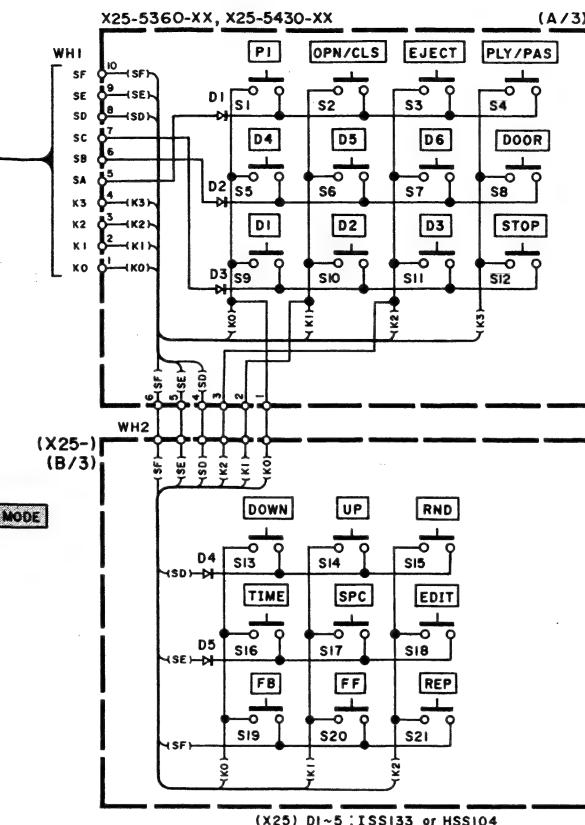
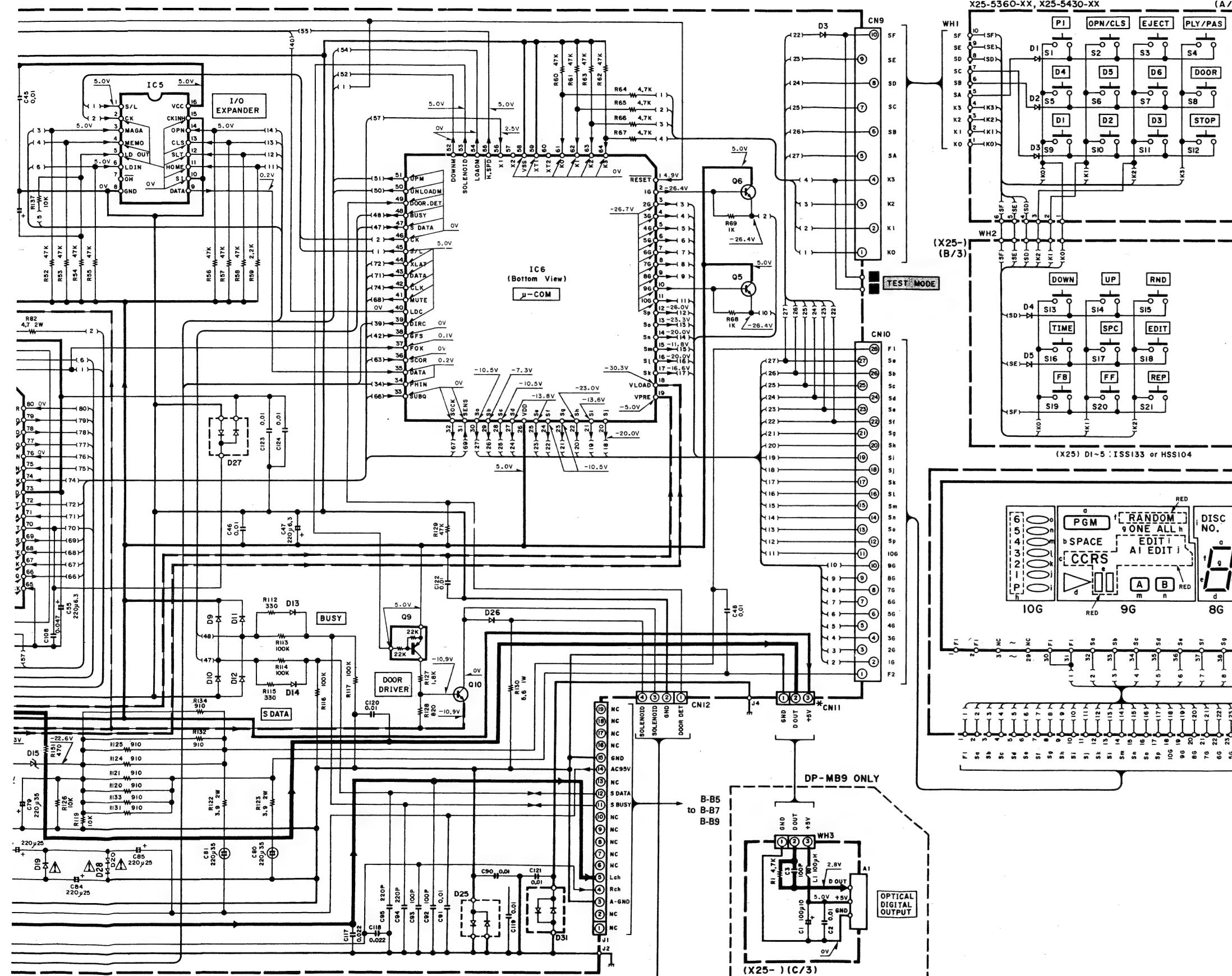


CXA1372Q



TC9268F



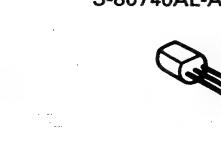
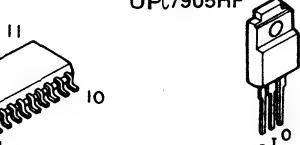


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

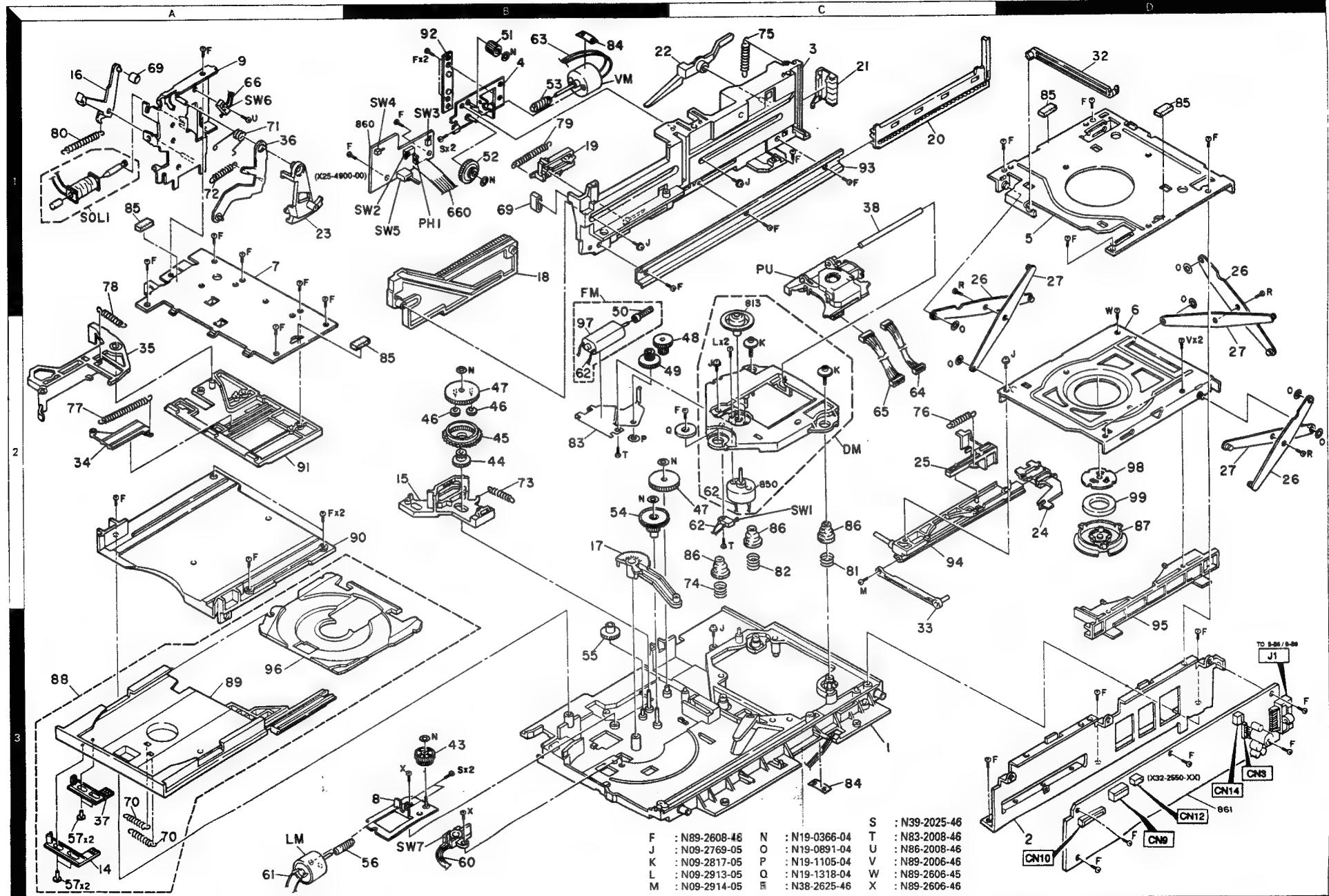
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

DP-MB5/MB9 (K)

DP-MB5/ KENWOOD

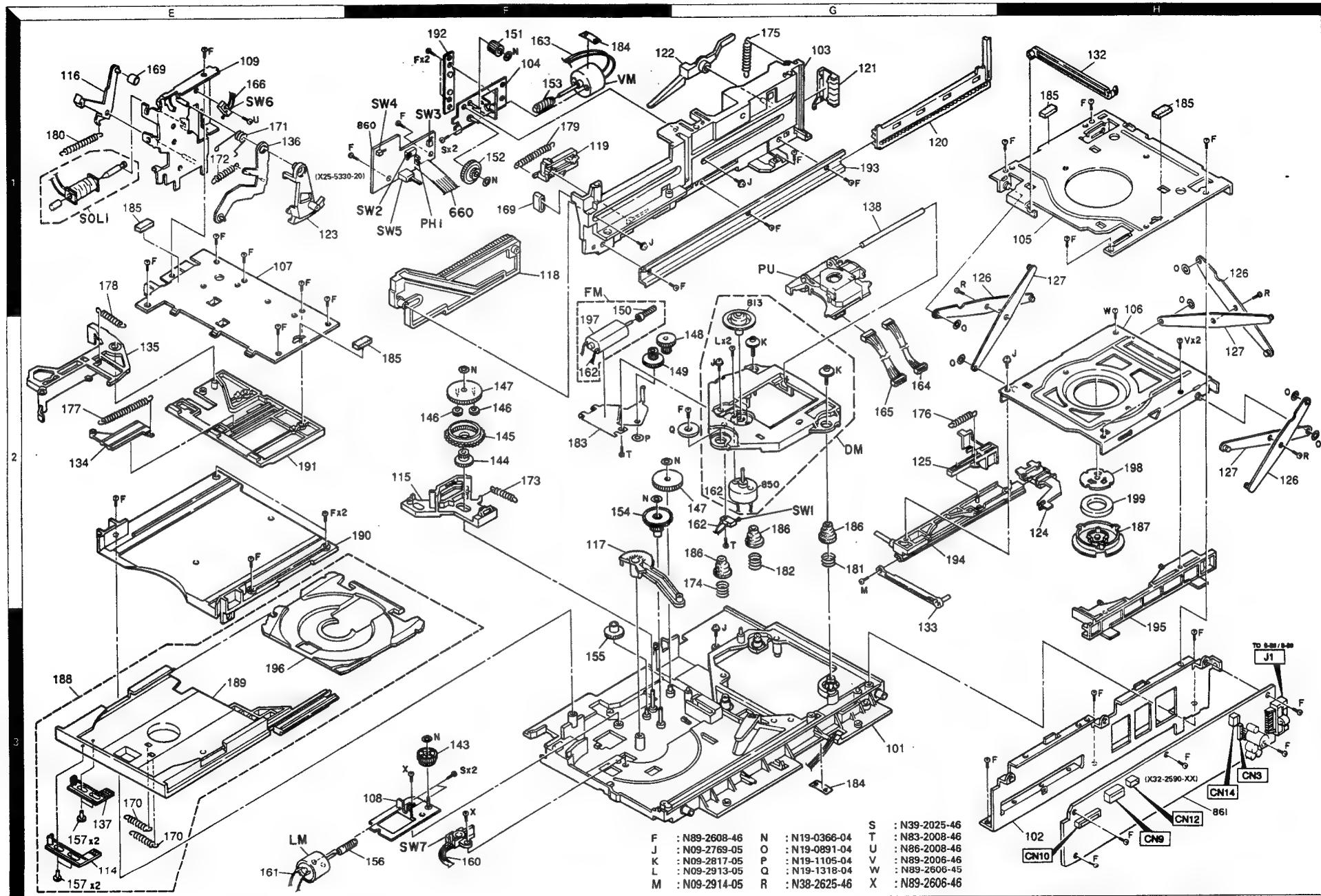


Y22-3351-01

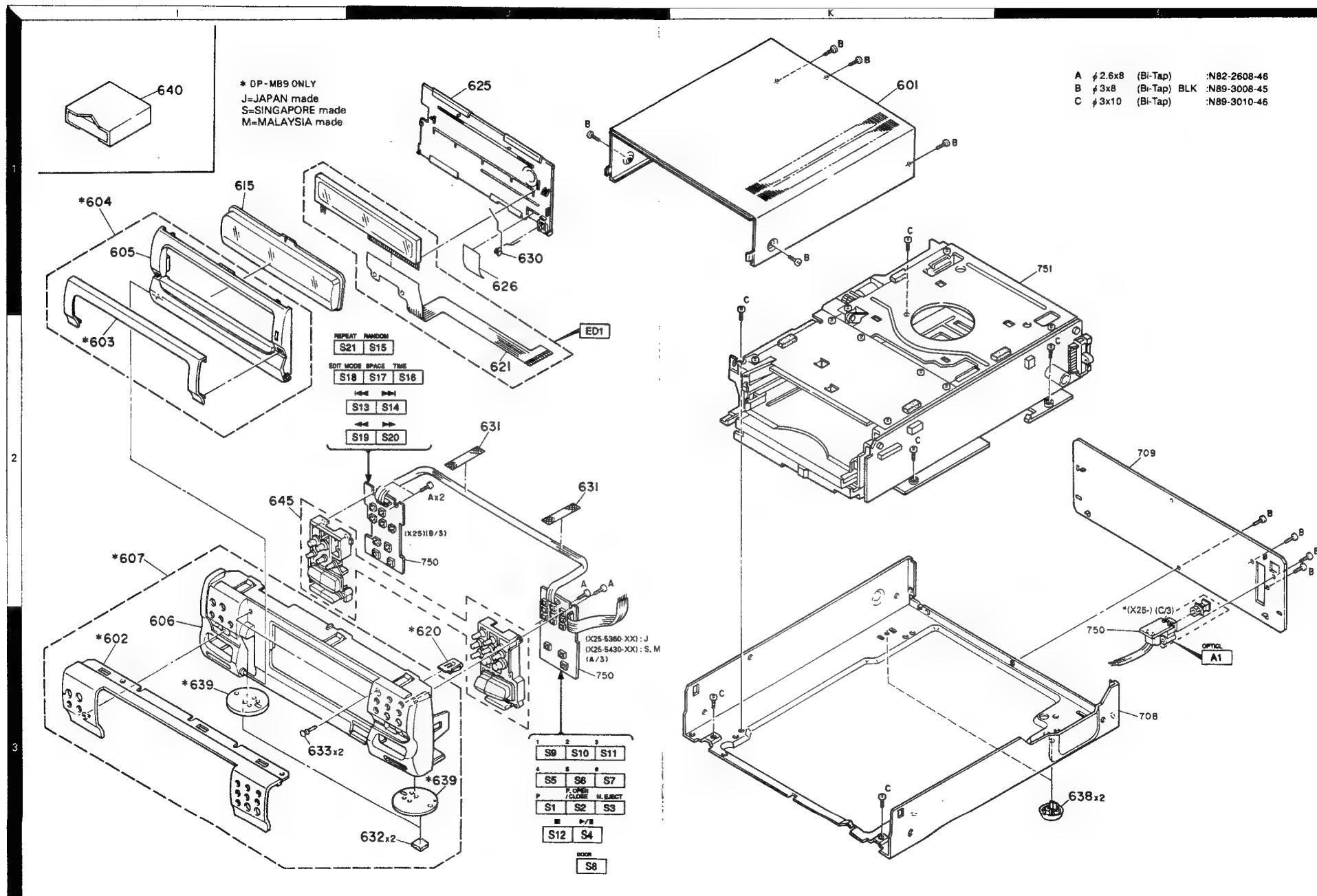


DP-MB5/MB9 DP-MB5/MB9

EXPLODED VIEW (MECHANISM) : SINGAPORE, MALAYSIA MADE



DP-MB5/MB9 DP-MB5/MB9 EXPLODED VIEW (UNIT)



PARTS LIST

DP-MB5/MB9

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

①

②

Ref. No.	Address	New Parts No.	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
DP-MB5 : JAPAN MADE						
601	1K	*	A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0360-02	PANEL (TRAY)		
606	3I	*	A60-0470-01	PANEL (FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
632	3J	*	G11-2052-14	CUSHION		
633	3I	*	G13-0182-04	CUSHION		
-		*	H10-5530-02	POLYSTYRENE FOAMED FIXTURE (L)	M	
-		*	H10-5531-02	POLYSTYRENE FOAMED FIXTURE (R)	PYX	
-		*	H20-0574-04	PROTECTION COVER		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0730-04	ITEM CARTON CASE		
638	3L		J02-0370-05	FOOT (REAR)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOP(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB5 : SINGAPORE MADE						
601	1K		A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0360-02	PANEL (TRAY)		
606	3I	*	A60-0470-01	PANEL (FRONT)	S	
615	1I	*	B10-1979-03	FRONT GLASS		
-		*	B46-0122-23	WARRANTY CARD	E	
-		*	B46-0143-13	WARRANTY CARD	T	
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
632	3J	*	G11-2052-14	CUSHION		
633	3I	*	G13-0182-04	CUSHION		
-		*	H10-5552-12	POLYSTYRENE FOAMED FIXTURE (L)	M	
-		*	H10-5553-12	POLYSTYRENE FOAMED FIXTURE (R)	KPYXTE	
-		*	H20-0574-04	PROTECTION COVER		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0741-04	ITEM CARTON CASE	KPYX	S
-		*	H50-0742-04	ITEM CARTON CASE	M	S
-		*	H50-0792-04	ITEM CARTON CASE	TE	S

L:Scandinavia

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⚠ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

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Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts No.	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
DP-MB5 : MALAYSIA MADE						
601	1K		A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0360-02	PANEL (TRAY)		
606	3I	*	A60-0470-01	PANEL (FRONT)		S
615	1I	*	B10-1979-03	FRONT GLASS		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
632	3J	*	G11-2052-14	CUSHION		
633	3I	*	G13-0182-04	CUSHION		
-		*	H10-5595-12	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5596-12	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0793-04	ITEM CARTON CASE		S
638	3L		J02-0370-05	FOOT (REAR)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOP(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB9 : JAPAN MADE						
601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRAY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRAY)		
605	1I	*	A29-0350-02	PANEL(TRAY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J	*	E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
DP-MB9 : SINGAPORE made						
L:Scandinavia	K:USA	P:Canada	S=SINGAPORE made			
Y:PX(Far East, Hawaii)	T:England	E:Europe				
Y:AAFES(Europe)	X:Australia	M:Other Areas				
S=SINGAPORE made						
⚠ indicates safety critical components.						

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3

Ref. No.	Address	New Parts No.	Parts No.	Description	Desti- nation	Re- marks
參照番号	位置	新	部品番号	部品名／規格	仕向	備考
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-	*	H10-5530-02	POLYSTYRENE FOAMED FIXTURE(L)			
-	*	H10-5531-02	POLYSTYRENE FOAMED FIXTURE(R)			
-		H20-0576-04	PROTECTION COVER			
-		H25-0681-04	PROTECTION BAG			
-		H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		M	
-	*	H50-0743-04	ITEM CARTON CASE		PX	
638	3L		J02-0370-05	FOOT(REAR)		
639	3I, 3J	*	J02-1095-04	FOOT(FRONT)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		

DP-MB9 : SINGAPORE MADE

601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRAY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRAY)		
605	1I	*	A29-0350-02	PANEL(TRAY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J	*	E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
632	3J	*	G11-2052-14	CUSHION		
633	3I	*	G13-0182-04	CUSHION		
-		*	H10-5552-12	POLYSTYRENE FOAMED FIXTURE(L)	M	
-		*	H10-5553-12	POLYSTYRENE FOAMED FIXTURE(R)	X	
-		*	H20-0574-04	PROTECTION COVER	X	
-		*	H25-0681-04	PROTECTION BAG	X	
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE	X	
-		*	H50-0745-04	ITEM CARTON CASE	X	
-		*	H50-0746-04	ITEM CARTON CASE	X	
-		*	H50-0794-04	ITEM CARTON CASE	X	
638	3L		J02-0370-05	FOOT(REAR)		
639	3J	*	J02-1095-04	FOOT(FRONT)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
-			J61-0307-05	WIRE BAND		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		

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New Parts

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Teile ohne Parts No. werden nicht geliefert.

4

Ref. No.	Address	New Parts No.	Parts No.	Description	Desti- nation	Re- marks
參照番号	位置	新	部品番号	部品名／規格	仕向	備考
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB9 : MALAYSIA MADE						
601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRAY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRAY)		
605	1I	*	A29-0350-02	PANEL(TRAY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J	*	E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J	*	G10-0173-04	NON-WOVEN FABRIC		
632	3J	*	G11-2052-14	CUSHION		
633	3I	*	G13-0182-04	CUSHION		
-		*	H10-5552-12	POLYSTYRENE FOAMED FIXTURE(L)	S	
-		*	H10-5553-12	POLYSTYRENE FOAMED FIXTURE(R)	X	
-		*	H20-0574-04	PROTECTION COVER	X	
-		*	H25-0681-04	PROTECTION BAG	X	
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE	X	
-		*	H50-0745-04	ITEM CARTON CASE	X	
-		*	H50-0746-04	ITEM CARTON CASE	X	
-		*	H50-0794-04	ITEM CARTON CASE	X	
638	3L		J02-0370-05	FOOT(REAR)		
639	3J	*	J02-1095-04	FOOT(FRONT)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
-			J61-0307-05	WIRE BAND		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		
ELECTRIC UNIT X25-4900-00 : J, X25-5330-20 : S, M (-00 : MB5, -01 : MB9)						
660	1B		E35-0389-05	WIRING HARNESS(8P)		
660	1F		E35-0599-05	WIRING HARNESS(8P)		J
SW2	1B, 1F		S64-0006-05	LEVER SWITCH(HOME POSITION)		
SW3	1B, 1F		S68-0025-05	PUSH SWITCH(MEMORY, MAGAZINE)		
SW5	1B, 1F		S33-2062-05	LEVER SWITCH(LOADING IN/OUT)		
PH1	1B, 1F		T95-0123-05	OPTO ISOLATOR(LIFT POSITION)		
DISPLAY UNIT X25-5360-XX : J, X25-5430-XX : S, M (-00 : MB5, -01 : MB9)						
C1			CE04KW1A101M	ELECTRO	100UF	10WV
C2			CK45FF1H103Z	CERAMIC	0.010UF	Z
C3			CC45FSL1H101J	CERAMIC	100PF	J
L1			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		9
S1	-21	2J, 3J	S40-1064-05	TACT SWITCH(P1, OPEN/ CLOSE etc)		
J=JAPAN made S=SINGAPORE made						
9=DP-MB9 only						

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PARTS LIST**DP-MB5/MB9**

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Teile ohne Parts No. werden nicht geliefert

5

Ref. No.	Address	New Parts No.	Parts No.	Description		Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格		仕向	備考
D1 -5			HSS104	DIODE			
D1 -5			1SS133	DIODE			
A1	3L		W02-1114-05	OSCILLATING MODULE(OPTICAL OUT)		9	
CD PLAYER UNIT X32-2550-XX : J, X32-2590-XX : S, M (-00 : MB5, -01 : MB9)							
C1			CE04KW1A470M	ELECTRO	47UF 10WV		
C2 ,3			CC73FSL1H150J	CHIP C	15PF J		
C4			CE04KW1V100M	ELECTRO	10UF 35WV		
C5			CE04KW1A470M	ELECTRO	47UF 10WV		
C6 ,7			CE04KW0J331M	ELECTRO	330UF 6.3WV		
C8			CC73FSL1H150J	CHIP C	15PF J		
C9			CC73FSL1H100J	CHIP C	10PF J		
C10			CK73EF1C684Z	CHIP C	0.68UF Z		
C11			CE04KW1H474M	ELECTRO	0.47UF 50WV		
C12			CK73FB1H333K	CHIP C	0.033UF K		
C13			CE04KW1H010M	ELECTRO	1.0UF 50WV		
C14			CK73FB1H223K	CHIP C	0.022UF K		
C15			CC73FSL1H121J	CHIP C	120PF J		
C16			CK73FB1H222K	CHIP C	2200PF K		
C17			CK73FB1H103K	CHIP C	0.010UF K		
C18			CK73FB1H222K	CHIP C	2200PF K		
C19			CK73FB1E104K	CHIP C	0.10UF K		
C20			CC73FSL1H470J	CHIP C	47PF J		
C21			CE04HW1H3R3M	NP-ELEC	3.3UF 50WV		
C22			CK73FB1E104K	CHIP C	0.10UF K		
C23			CC73FSL1H121J	CHIP C	120PF J		
C24			CK73FB1E104K	CHIP C	0.10UF K		
C25			CE04HW1E100M	NP-ELEC	10UF 25WV		
C26			CK73FB1E104K	CHIP C	0.10UF K		
C27			CC73FSL1H680J	CHIP C	60PF J		
C28 ,29			CK73FB1H103K	CHIP C	0.010UF K		
C30			CE04HW1E100M	NP-ELEC	10UF 25WV		
C31			CK73FB1H103K	CHIP C	0.010UF K		
C32 ,33			CE04KW1C470M	ELECTRO	47UF 16WV		
C34			CE04HW1H010M	NP-ELEC	1.0UF 50WV		
C35			CC73FSL1H21J	CHIP C	120PF J		
C36			CE04HW1H2R2M	NP-ELEC	2.2UF 50WV		
C37			CE04HW1H010M	NP-ELEC	1.0UF 50WV		
C38			CE04KW1H010M	ELECTRO	1.0UF 50WV		
C39 -41			CE04HW1E100M	NP-ELEC	10UF 25WV		
C42 ,43			CK73FB1H103K	CHIP C	0.010UF K		
C44			CE04HW1E100M	NP-ELEC	10UF 25WV		
C45 ,46			CK73FB1H103K	CHIP C	0.010UF K		
C47			CE04KW0J221M	ELECTRO	220UF 6.3WV		
C48 ,49			CK73FB1H103K	CHIP C	0.010UF K		
C50			CK73FB1H152K	CHIP C	1500PF K		
C51			CK73FB1H473K	CHIP C	0.047UF K		
C52			CE04HW1A220M	NP-ELEC	22UF 10WV		
C53			CK73FB1H332K	CHIP C	3300PF K		
C54			CK73FB1H473K	CHIP C	0.047UF K		
C55			CE04KW0J221M	ELECTRO	220UF 6.3WV		
C56			CE04KW0J471M	ELECTRO	470UF 6.3WV		
C57 ,58			CC73FCH1H470J	CHIP C	47PF J		
C59 ,60			CC73FSL1H270J	CHIP C	27PF J		
C61 -64			CC73FSL1H121J	CHIP C	120PF J		

9=DP-MB9 only

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6

Ref. No.	Address	New Parts No.	Parts No.	Description		Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格		仕向	備考
C65			CK73FB1E104K	CHIP C	0.10UF K		
C66 ,67			CK73FB1H103K	CHIP C	0.010UF K		
C68 ,69			CC73FSL1H681J	CHIP C	680PF J		
C70			CK73FB1H103K	CHIP C	0.010UF K		
C71 ,72			CE04HW1E100M	NP-ELEC	10UF 25WV		
C73 ,74			CK73FB1H102K	CHIP C	1000PF K		
C75 ,76			CE04KW1A470M	ELECTRO	47UF 10WV		
C77			CK73FB1H103K	CHIP C	0.010UF K		
C78			CE04KW1V470M	ELECTRO	47UF 35WV		
C79			CE04DW1V221M	ELECTRO	220UF 35WV		
C80 ,81			CE04HW1V221M	NP-ELEC	220UF 35WV		
C82 ,85			CE04KW1E221M	ELECTRO	220UF 25WV		
C86			CE04KW1C472M	ELECTRO	4700UF 16WV		
C87			CE04KW1C222M	ELECTRO	2200UF 16WV		
C88			CK73FB1H103K	CHIP C	0.010UF K		
C89			CE04KW1C222M	ELECTRO	2200UF 16WV		
C90 ,91			CK73FB1H103K	CHIP C	0.010UF K		
C92 ,93			CC73FSL1H101J	CHIP C	100PF J		
C94 ,95			CC73FSL1H221J	CHIP C	220PF J		
C96 ,97			CE04KW1A101M	ELECTRO	100UF 10WV		
C98 ,101			CE04KW1C470M	ELECTRO	47UF 16WV		
C102			CC73FSL1H680J	CHIP C	68PF J		
C103,104			CK73FB1H473K	CHIP C	0.047UF K		
C105			CE04KW1V4R7M	ELECTRO	4.7UF 35WV		
C106			CC73FSL1H470J	CHIP C	47PF J		
C107			CK73FB1H103K	CHIP C	0.010UF K		
C108			CK73FB1H473K	CHIP C	0.047UF K		
C109			CK73FB1H223K	CHIP C	0.022UF K		
C110			CK73FB1H103K	CHIP C	0.010UF K		
C111			CK73FB1H102K	CHIP C	1000PF K		
C113-116			CK73FB1H103K	CHIP C	0.010UF K		
C117,118			CK73FB1H223K	CHIP C	0.022UF K		
C119-124			CK73FB1H103K	CHIP C	0.010UF K		
CN3	3D,3H		E40-0611-05	PIN ASSY(ADJUSTMENT)			
CN9	3D,3H		E40-4284-05	FLAT CABLE CONNECTOR(10P)			
CN10	3D,3H		E40-4616-05	FLAT CABLE CONNECTOR(28P)			
CN11	3D,3H		E40-4293-05	FLAT CABLE CONNECTOR(3P)			
J1	3D,3H		E58-0006-05	RECTANGULAR RECEPTACLE			
J5 ,7			J11-0098-05	WIRE CLAMPER			
L1			L33-0369-05	CHOKER COIL			
X1			L77-1164-05	CRYSTAL RESONATOR(16.9344MHz)			
R82			RS14KB314R7J	FL-PROOF RS	4.7 J 2W		
R111			RS14KB3D101J	FL-PROOF RS	100 J 2W		
R122,123			RS14KB3D3R9J	FL-PROOF RS	3.9 J 2W		
R130			RS14KB3A5R6J	FL-PROOF RS	5.6 J 1W		
VR1			R12-3685-05	TRIMMING POT 10K<TE BAL>			
VR2			R12-3686-05	TRIMMING POT 22K<TE BAL>			
VR3 ,4			R12-3685-05	TRIMMING POT 10K<F,T-GAIN>			
W1 - 3			R92-0679-05	CHIP R	0 ΩHM		
W4			R92-0670-05	CHIP R	0 ΩHM		
W10 - 12			R92-0679-05	CHIP R	0 ΩHM		
W14			R92-0670-05	CHIP R	0 ΩHM		

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6

DP-MB5/MB9

▲ indicates safety critical components.

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DP-MB5/MB9

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DP-MB5/MB9

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DP-MB5/MB9

PARTS LIST

8

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Teile ohne Parts No. werden nicht geliefert.

7

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
14	3A	*	D10-3105-13	SLIDER		
15	2B		D10-3257-03	SLIDER		
16	1A		D10-3258-03	ARM(LOCK)		
17	2B		D10-3260-03	ARM(LOADING)		
18	1B		D10-3261-03	SLIDER(LIFT)		
19	1B		D10-3262-04	SLIDER(DOOR)		
20	1C		D10-3263-03	SLIDER(LOADING)		
21	1C		D10-3264-04	SLIDER		
22	1B		D10-3265-04	ARM		
23	1A		D10-3266-03	ARM(DOOR)		
24	2D		D10-3267-03	ARM(LOADING)		
25	2C		D10-3268-03	SLIDER		
26	1C, 2D		D10-3269-04	ARM ASSY		
27	1D, 2D		D10-3271-04	ARM ASSY		
32	1D		D10-3273-03	ARM		
33	3C		D10-3274-04	ARM		
34	2A		D10-3275-04	SLIDER(EJECT)		
35	2A		D10-3276-03	ARM(LOCK)		
36	1A		D10-3278-04	ARM ASSY		
37	3A		D10-3281-03	SLIDER		
38	1C		D10-3294-14	ROD(PICKUP)		
43	3B		D13-0983-04	GEAR		
44	2B		D13-0984-04	GEAR		
45	2B		D13-0985-04	GEAR		
46	2B		D13-0986-04	GEAR(PLANET)		
47	2B, 2C		D13-0987-04	GEAR(CARRIER)		
48	2C		D13-0989-04	GEAR(INTERMEDIATE)		
49	2C		D13-0990-04	GEAR(FINAL)		
50	1B		D13-0991-04	GEAR(WORM)		
51	1B		D13-0992-04	GEAR		
52	1B		D13-0993-04	GEAR		
53	1B		D13-0994-04	GEAR		
54	2B		D13-0995-04	GEAR(ARM)		
55	3B		D13-0996-04	GEAR		
56	3B		D13-1502-04	WORM		
57	3A		D21-1633-05	SHAFT		
60	3B		E35-0388-05	WIRING HARNESS(LEVER SWITCH)		
61	3A		E35-0390-05	WIRING HARNESS(LOADING MOTOR)		
62	2B, 2C		E35-0391-05	WIRING HARNESS(FEED, DISC MOTOR)		
63	1B		E35-0392-05	WIRING HARNESS(VERTICAL MOTOR)		
64	2C		E35-0417-05	WIRING HARNESS(5P)		
65	2C		E35-0418-05	WIRING HARNESS(6P)		
66	1A		E35-0435-08	WIRING HARNESS(SWITCH)		
69	1A, 1B		G11-2134-08	CUSHION		
70	3A		G01-3333-04	EXTENSION SPRING		
71	1A		G01-3470-08	TORSION COIL SPRING		
72	1A		G01-3471-08	EXTENSION SPRING(LOCK)		
73	2B		G01-3472-04	EXTENSION SPRING		
74	2C		G01-3473-04	COMPRESSION SPRING		
75	1C		G01-3474-04	EXTENSION SPRING		
76	2C		G01-3475-04	EXTENSION SPRING		
77	2A		G01-3476-04	EXTENSION SPRING		
78	1A		G01-3477-04	EXTENSION SPRING(ARM LOCK)		

L:Scandinavia K:USA P:Canada
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30

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7

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
D1 -3			MA110	DIODE		
D1 -3			1SS355	DIODE		
D9 -14			MA110	DIODE		
D9 -14			1SS355	DIODE		
D15			DTZ8.2(B)	ZENER DIODE		
D16			DTZ10(B)	ZENER DIODE		
D17 -22			S5688B(TPB5)	DIODE		
D17 -22			1SR139-100(T64)	DIODE		
D23 ,24			DTZ10(B)	ZENER DIODE		
D25			DA204U	DIODE		
D26			S5688B(TPB5)	DIODE		
D26			1SR139-100(T64)	DIODE		
D27			DA204U	DIODE		
D28			S5688B(TPB5)	DIODE		
D28			1SR139-100(T64)	DIODE		
D29	*		DTZ3.9(B)	ZENER DIODE		
D30 ,31			DA204U	DIODE		
IC1			CXA1571M	IC(CD RF AMP)		
IC2			CXA1372Q	IC(CD RF SERVO)		
IC3			CXD2500BQ	IC(DIGITAL SIGNAL PROCESSOR)		
IC4	*		TC9268F	IC(DIGITAL FILTER)		
IC5	*		TC74HC165AF	IC(8BIT SHIFT REGISTER)		
IC6	*		UPD75217GF-637	IC(4BIT MICROPROCESSOR)		
IC7			NJM4565M	IC(OP AMP X2)		
IC8 ,9			LA6510	IC(DUAL POWER OP AMP)		
IC9 ,9			TA8410AK	IC(POWER OP AMP)		
IC10	*		S-80740AL-A4	IC(VOLTAGE DETECTOR)		
IC11			LA6510	IC(DUAL POWER OP AMP)		
IC11			TA8410AK	IC(POWER OP AMP)		
IC12,13			NJM4565M	IC(OP AMP X2)		
IC14			LM2940CT-5.0	IC(VOLTAGE REGULATOR/ +5V)		
IC15			TA79005S	IC(VOLTAGE REGULATOR/ -5V)		
IC15			UPC7905HF	IC(VOLTAGE REGULATOR/ -5V)		
Q1			DTC124EU	DIGITAL TRANSISTOR		
Q2			2SC3246	TRANSISTOR		
Q3 ,4			DTC124EU	DIGITAL TRANSISTOR		
Q5 ,6			2SC4081(R,S)	TRANSISTOR		
Q7			DTA124EU	DIGITAL TRANSISTOR		
Q8			2SB1308(Q,R)	TRANSISTOR		
Q9			DTA124EU	DIGITAL TRANSISTOR		
Q10			2SD1963(R,S)	TRANSISTOR		
Q11			2SC4081(R,S)	TRANSISTOR		
Q12			2SA1576(R,S)	TRANSISTOR		
Q13			DTA124EU	DIGITAL TRANSISTOR		

MECHANISM ASS'Y JAPAN MADE (X92-1749-XX -00 : MB5, -01 : MB9)

1	3C		A10-3025-02	CHASSIS ASSY		
2	3D		A11-0742-02	SUB CHASSIS(RIGHT)		
3	1C		A11-0745-01	SUB CHASSIS(LEFT)		
4	1B		A11-0746-04	SUB CHASSIS CALKING ASSY		
5	1D		A11-0750-02	SUB CHASSIS(LOADING)		
6	2D		A11-0752-02	SUB CHASSIS(LOADING)		
7	1A		A11-0753-03	SUB CHASSIS		
8	3B		A11-0763-04	SUB CHASSIS CALKING ASSY		
9	1A		A11-0765-04	SUB CHASSIS CALKING ASSY		

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Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation 仕向	Re- marks 備考
参照番号	位置 部品番号	部品番号	部品名／規格	部品名／規格	部品名／規格	部品名／規格
79	1B	G01-3480-04	EXTENSION SPRING			
80	1A	G01-3481-08	EXTENSION SPRING			
81	2C	G01-3485-04	COMPRESSION SPRING			
82	2C	G01-3518-04	COMPRESSION SPRING			
83	2B	G02-1002-04	FLAT SPRING			
84	1B, 3C	G10-0146-04	NON-WOVEN FABRIC			
85	1A, 1D	*	G11-0129-04	SOFT TAPE (20X7X3)		
86	2C	J02-1058-15	INSULATOR			
87	2D	J11-0181-03	CLAMPER			
88	3A	*	J19-3485-12	HOLDER ASSY		
89	3A	*	J19-3486-11	HOLDER		
90	2B	J19-3487-02	HOLDER(MAGAZINE)			
91	2A	J19-3489-02	HOLDER			
92	1B	J21-5922-04	MOUNTING HARDWARE			
93	1C	J90-0685-03	GUIDE			
94	2C	J90-0686-14	RAIL ASSY			
95	3D	J90-0688-13	RAIL			
96	3A	J99-0517-02	TRAY			
		J61-0307-05	WIRE BAND			
F		N89-2608-46	BINDING HEAD TAPPIE SCREW			
J		N09-2769-05	MACHINE SCREW			
K		N09-2817-05	TAPPIE SCREW (2.6X10,12P)			
L		N09-2913-05	MACHINE SCREW			
M		N09-2914-05	MACHINE SCREW			
N		N19-0366-04	FLAT WASHER			
O		N19-0891-04	FLAT WASHER			
P		N19-1105-04	FLAT WASHER			
Q		N19-1318-04	FLAT WASHER			
R		N38-2625-46	PAN HEAD MACHIN SCREW			
S		N39-2025-46	PAN HEAD MACHIN SCREW			
T		N83-2008-46	PAN HEAD TAPPIE SCREW			
U		N86-2008-46	BINDING HEAD TAPPIE SCREW			
V		N89-2006-46	BINDING HEAD TAPPIE SCREW			
W		N89-2606-45	BINDING HEAD TAPPIE SCREW			
X		N89-2606-46	BINDING HEAD TAPPIE SCREW			
SW1	2C	S33-1022-05	LEVER SWITCH(PICK UP LIMIT)			
SW6	1A	S33-1022-05	LEVER SWITCH(OPEN/CLOSE)			
SW7	3B	S33-2061-05	LEVER SWITCH(DOOR)			
97	2B	T42-0597-05	DC MOTOR(FEED MOTOR)			
98	2D	T50-1055-04	YOKE			
99	2D	T99-0503-15	MAGNET			
DM	2C	A11-0791-03	SUB CHASSIS ASSY(DISC MOTOR)			
FM	1B	T42-0612-04	MOTOR ASSY(FEED MOTOR)			
LM	3A	T42-0620-05	DC MOTOR(LOADING MOTOR)			
PU	1C	T25-0023-05	OPTICAL PICKUP HEAD(HPC-2S)			
VM	1B	T42-0567-05	DC MOTOR(VERTICAL MOTOR)			
SOL1	1A	T94-0227-18	MAGNETIC PLUNGER(DOOR)			
MECHANISM ASSY : SINGAPORE, MALAYSIA MADE (X92-1839-XX -00 : MB5, -01 : MB9)						
101	3G	A10-3025-02	CHASSIS ASSY			
102	3H	*	A11-0784-02	SUB CHASSIS(RIGHT)		S
103	1G	*	A11-0785-01	SUB CHASSIS(LEFT)		S
104	1F	*	A11-0786-04	SUB CHASSIS CALKING ASSY		S
105	1H		A11-0750-02	SUB CHASSIS(LOADING)		S

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PARTS LIST

DP-MB5/MB9

10

DP-MB5/MB9

PARTS LIST

11

* New Parts

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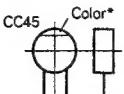
Ref. No.	Address	New Parts No.	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
175	1G		G01-3474-04	EXTENSION SPRING		
176	2G		G01-3475-04	EXTENSION SPRING		
177	2E		G01-3476-04	EXTENSION SPRING		
178	1E		G01-3477-04	EXTENSION SPRING(ARM LOCK)		
179	1F		G01-3480-04	EXTENSION SPRING		
180	1E		G01-3481-08	EXTENSION SPRING		
181	2G		G01-3485-04	COMPRESSION SPRING		
182	2G		G01-3518-04	COMPRESSION SPRING		
183	2F	*	G02-1018-04	FLAT SPRING		
184	1F, 3G		G10-0146-04	NON-WOVEN FABRIC		
185	1E, 1H	*	G11-0129-04	SOFT TAPE (20X7X3)		
186	2G		J02-1058-15	INSULATOR		
187	2H		J11-0181-03	CLAMPER		
188	3E	*	J19-3564-12	HOLDER ASSY		
189	3E	*	J19-3566-11	HOLDER		
190	2F	*	J19-3567-02	HOLDE(MAGAZINE)		
191	2E	*	J19-3568-02	HOLDER		
192	1F	*	J21-5797-04	Mounting hardware		
193	1G	*	J90-0696-03	GUIDE		
194	2G	*	J90-0697-04	RAIL ASSY		
195	3H	*	J90-0699-02	RAIL		
196	3H		J99-0517-02	TRAY		
J			N89-2608-46	BINDING HEAD TAPTITE SCREW		
			N09-2769-05	MACHINE SCREW		
			N09-2817-05	TAPTITE SCREW (2.6X10,12P)		
			N09-2913-05	MACHINE SCREW		
			N09-2914-05	MACHINE SCREW		
K			N19-0366-04	FLAT WASHER		
			N19-0891-04	FLAT WASHER		
			N19-1105-04	FLAT WASHER		
			N19-1318-04	FLAT WASHER		
			N38-2625-46	PAN HEAD MACHIN SCREW		
L			N39-2025-46	PAN HEAD MACHIN SCREW		
			N83-2008-46	PAN HEAD TAPTITE SCREW		
			N86-2008-46	BINDING HEAD TAPTITE SCREW		
			N89-2006-46	BINDING HEAD TAPTITE SCREW		
			N89-2006-45	BINDING HEAD TAPTITE SCREW		
M			N89-2606-46	BINDING HEAD TAPTITE SCREW		
N			N89-2606-46	BINDING HEAD TAPTITE SCREW		
O			N19-0366-04	FLAT WASHER		
			N19-0891-04	FLAT WASHER		
			N19-1105-04	FLAT WASHER		
			N19-1318-04	FLAT WASHER		
			N38-2625-46	PAN HEAD MACHIN SCREW		
P			N39-2025-46	PAN HEAD MACHIN SCREW		
			N83-2008-46	PAN HEAD TAPTITE SCREW		
			N86-2008-46	BINDING HEAD TAPTITE SCREW		
			N89-2006-46	BINDING HEAD TAPTITE SCREW		
			N89-2006-45	BINDING HEAD TAPTITE SCREW		
Q			N89-2606-46	BINDING HEAD TAPTITE SCREW		
R			N89-2606-46	BINDING HEAD TAPTITE SCREW		
S			N89-2606-46	BINDING HEAD TAPTITE SCREW		
T			N89-2606-46	BINDING HEAD TAPTITE SCREW		
U			N89-2606-46	BINDING HEAD TAPTITE SCREW		
V			N89-2606-46	BINDING HEAD TAPTITE SCREW		
W			N89-2606-46	BINDING HEAD TAPTITE SCREW		
X			N89-2606-46	BINDING HEAD TAPTITE SCREW		
SW1	2G		S33-1022-05	LEVER SWITCH(PICKUP LIMIT)		
	1E		S33-1022-05	LEVER SWITCH(OPEN/CLOSE)		
	3F		S33-2061-05	LEVER SWITCH(DOOR)		
SW6	2F		T42-0597-05	DC MOTOR(FEED MOTOR)		
	2H		T50-1055-04	YOKE		
	2H		T99-0503-15	MAGNET		
	2G		A11-0791-03	SUB CHASSIS ASSY(DISC MOTOR)		
	1F		T42-0612-04	MOTOR ASSY(FEED MOTOR)		
SW7	3E		T42-0620-05	DC MOTOR(LOADING MOTOR)		
	1G		T25-0023-05	OPTICAL PICKUP HEAD(HPC-2S)		
	1F		T42-0567-05	DC MOTOR(VERTICAL MOTOR)		
	1E		T94-0227-18	MAGNETIC PLUNGER(DOOR SOLENOID)		

S=SINGAPORE made

PARTS LIST

CAPACITORS CC 45 TH 1H 220 J
 1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
 2 = Shape ... round, square, ect. 5 = Value
 3 = Temp. coefficient 6 = Tolerance



• Capacitor value

010 = 1pF	2	2	0 = 22pF
100 = 10pF			Multiplier
101 = 100pF			2nd number
102 = 1000pF = 0.001μF			1st number
103 = 0.01μF			

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF -10 ~ +50
							-20	-20	-0	Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word	2nd word	A	B	C	D	E	F	G	H	J	K	V
0		1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1		10	12.5	16	20	25	31.5	40	50	63	80	35
2		100	125	160	200	250	315	400	500	630	800	-
3		1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

Refer to the table above.

(Chip) (CH, RH, UJ, SLI)

(EX) C K 7 3 F F 1 H 0 0 0 Z
 1 2 3 4 5 6 7

1 = Type
 2 = Shape
 3 = Dimension
 4 = Temp. coefficient
 5 = Voltage rating
 6 = Value
 7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

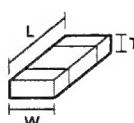
RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (B, F)

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

5 = Rating wattage

1 = Type

2 = Shape

3 = Dimension

4 = Temp. coefficient

6 = Value

7 = Tolerance

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

SPECIFICATIONS

Laser	Semiconductor laser
Playing rotation	200rpm ~ 500rpm (CLV)
Frequency response	20Hz ~ 20kHz, +0dB, -1.5dB
Signal noise ratio	More than 93dB
Total harmonic distortion	Less than 0.01% (at 1kHz)
Channel separation	More than 85dB (at 1kHz)
Wow & Flutter	Unmeasurable limit
Digital output (Optical)	-15dBm ~ -21dBm (Wave length 660nm) : DP-MB9 only

GENERAL	
Dimensions	W: 270mm (10 - 5 / 8") x H : 85mm (3 - 3 / 8") x D : 311mm (12 - 1 / 4")
Weight (net)	3.2kg (7.0lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD CORPORATION

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